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Terms	Documents
L2 and event same detect\$3	6

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Set Name **Query**
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<u>L3</u>	L2 and event same detect\$3	6	<u>L3</u>
<u>L2</u>	L1 and "information processing device"	43	<u>L2</u>
<u>L1</u>	"transmission media"	17615	<u>L1</u>

END OF SEARCH HISTORY

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L3: Entry 5 of 6

File: USPT

Jan 9, 1996

US-PAT-NO: 5483658

DOCUMENT-IDENTIFIER: US 5483658 A

TITLE: Detection of unauthorized use of software applications in processing devices

DATE-ISSUED: January 9, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grube; Gary W.	Palatine	IL	60067	
Markison; Timothy W.	Hoffman Estates	IL	60194	

APPL-NO: 8/ 023298 [PALM]
DATE FILED: February 26, 1993

INT-CL: [6] H04 L 9/00

US-CL-ISSUED: 395/800; 380/3, 380/4, 380/23, 380/25, 395/200.11, 395/550, 395/186,
364/DIG.1, 364/222.5, 364/286.5, 364/286.6
US-CL-CURRENT: 713/200; 705/59, 713/502FIELD-OF-SEARCH: 395/800, 395/200, 395/550, 380/3, 380/4, 380/25, 380/23, 364/DIG.1,
364/222.5, 364/286.5, 364/286.6

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4866769</u>	September 1989	Karp	380/4
<input type="checkbox"/>	<u>4956769</u>	September 1990	Smith	364/DIG.1
<input type="checkbox"/>	<u>5023907</u>	June 1991	Johnson et al.	380/4
<input type="checkbox"/>	<u>5032979</u>	July 1991	Hecht et al.	364/DIG.1
<input type="checkbox"/>	<u>5113518</u>	May 1992	Durst, Jr. et al.	395/550
<input type="checkbox"/>	<u>5182770</u>	January 1993	Medveczky et al.	380/4
<input type="checkbox"/>	<u>5204897</u>	April 1993	Wyman	380/4
<input type="checkbox"/>	<u>5287408</u>	February 1994	Samson	380/4

ART-UNIT: 232

PRIMARY-EXAMINER: Bowler; Alyssa H.

ASSISTANT-EXAMINER: Davis, Jr.; Walter D.

ATTY-AGENT-FIRM: Moreno; Christopher P.

ABSTRACT:

A monitoring computer monitors the communications occurring within at least one communication system for at least one unique processing device identification code associated with a processing device. Upon detecting the at least one device identification code, the monitoring computer compares the type of application in use by the processing device with known software parameters (including the allowable types of applications and their serial numbers) for the processing device. When the type of application in use by the processing device does not substantially match the known software parameters for the processing device, the processing device is identified as using an unauthorized and/or duplicated software application.

3 Claims, 6 Drawing figures

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L2: Entry 32 of 43

File: USPT

Aug 5, 1997

US-PAT-NO: 5655079

DOCUMENT-IDENTIFIER: US 5655079 A

TITLE: Data processing system and data transmission and processing method

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hirasawa; Shigeki	Kawasaki			JPX
Mori; Kinji	Machida			JPX
Orimo; Masayuki	Kawasaki			JPX
Teranishi; Yuko	Koganei			JPX
Takeuchi; Masuyuki	Fujisawa			JPX
Fujise; Hiroshi	Yokohama			JPX
Iwamoto; Shoji	Owariasahi			JPX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hitachi, Ltd.	Tokyo			JPX	03

APPL-NO: 8/ 447080 [PALM]

DATE FILED: May 22, 1995

PARENT-CASE:

This is a continuation of U.S. application Ser. No. 08/020,250 filed Feb. 18, 1993 now abandoned which is a continuation of U.S. application Ser. No. 07/558,080 filed Jul. 25, 1990, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	1-198176	July 31, 1989
JP	1-228949	September 4, 1989

INT-CL: [6] H04 S 3/02

US-CL-ISSUED: 395/200.01; 395/200.16, 395/800, 370/60, 370/94.1, 364/284, 364/DIG.1
US-CL-CURRENT: 709/245; 340/825.53, 370/428, 370/474

FIELD-OF-SEARCH: 395/800, 395/200, 395/200.01, 395/200.16, 370/60, 370/94.1,
364/284, 364/DIG.1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4354267</u>	October 1982	Mori et al.	371/11
<input type="checkbox"/>	<u>4366479</u>	December 1982	Mori et al.	370/86
<input type="checkbox"/>	<u>4462075</u>	July 1984	Mori et al.	364/200
<input type="checkbox"/>	<u>4477881</u>	October 1984	Kobayashi et al.	364/900
<input type="checkbox"/>	<u>4636939</u>	January 1987	Fildes	364/200
<input type="checkbox"/>	<u>4660201</u>	April 1987	Nakamura	364/200
<input type="checkbox"/>	<u>4661951</u>	April 1987	Segarra	370/85.9
<input type="checkbox"/>	<u>4729090</u>	March 1988	Baba	364/200
<input type="checkbox"/>	<u>4763254</u>	August 1988	Mori et al.	395/821
<input type="checkbox"/>	<u>4794519</u>	December 1988	Koizumi et al.	364/200
<input type="checkbox"/>	<u>4831516</u>	May 1989	Tanaka et al.	364/200
<input type="checkbox"/>	<u>4855900</u>	August 1989	Simpson et al.	364/200
<input type="checkbox"/>	<u>4926375</u>	May 1990	Mercer et al.	395/325
<input type="checkbox"/>	<u>5036518</u>	July 1991	Tseung	371/32
<input type="checkbox"/>	<u>5097412</u>	March 1992	Orimo et al.	395/500
<input type="checkbox"/>	<u>5193149</u>	March 1993	Aniszio et al.	395/200.2

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
59-47905	November 1984	JPX	

OTHER PUBLICATIONS

INTAP-S002-02 (V0,R1). This document is provided in Japanese. An English translation is unavailable to applicants' attorney.

Kim, et al., "Group Communication Mechanism for Dynamic Distributed Programs in UNIX Environment," Proceedings TENCON 87, vol. 2/3, Aug. 25, 1987, pp. 614-618. (English).

von Taube, Eugene. "Gateways Link Assorted Networks," Computer Design, vol. 24, No. 2, Feb. 1985, pp. 125-130. (English).

Liu, et al. "A Session Layer Design of a Reliable IPC System in the UNIX 4.2 Environment," Proceedings Computer Networking Symposium, Nov. 17, 1986, pp. 120-129. (English).

"Establishing Virtual Circuits in Large Computer Networks," IBM Technical Disclosure Bulletin, vol. 28, No. 8, Jan. 1986, pp. 3513-3517. (English).

Wolstenholme, P. "Filtering of Network Addresses in Real Time by Sequential Decoding," IEE Proceedings, vol. 135, No. 1, Jan. 1988, pp. 55-59. (English).

ART-UNIT: 232

PRIMARY-EXAMINER: Bowler; Alyssa H.

ASSISTANT-EXAMINER: Harrity; John

ATTY-AGENT-FIRM: Fay, Sharpe, Beall, Fagan, Minnich & McKee

ABSTRACT:

A data transmission method is provided for a multi-computer system which has a plurality of computers mutually connected via a transmission line. The plurality of computers are divided into groups, with an address assigned to each group. Transmission data of a sending computer is provided with a location where the address is assigned and a location where a content code indicating the data content

is assigned. The sending computer transmits the data with either the address or content code assigned, and the computers other than the sending computer decide whether or not to receive the data according to either the address or the content code.

9 Claims, 22 Drawing figures